



**Name: Dr. Amin Al Ka'bi**  
**Rank: Associate Professor – Electrical Engineering**

**Personal Information**

<b>Nationality:</b>	Australian
<b>ACK Joining Date:</b>	18 Mar 2012
<b>E-Mail Address:</b>	a.kabi@ack.edu.kw

**Professional Information**

<b>Education:</b>	<p> <b>Qualification:</b> Doctorate  <b>Major:</b> Electrical engineering  <b>College/University:</b> University of Queensland / Australia  <b>Year:</b> 2006         </p> <p> <b>Qualification:</b> Masters  <b>Major:</b> Electrical engineering  <b>College/University:</b> University of Jordan  <b>Year:</b> 1992         </p> <p> <b>Qualification:</b> Bachelor  <b>Major:</b> Electrical engineering  <b>College/University:</b> University of Jordan  <b>Year:</b> 1989         </p>
<b>Specialization:</b>	Electrical Engineering/Communications
<b>Current Academic Position:</b>	Associate professor
<b>Current Professional Positions:</b>	<ul style="list-style-type: none"> <li>- Member of Association of Engineers, Jordan.</li> <li>- Member of Institution of Engineers, Australia.</li> </ul>
<b>Previous Administrative Position Held:</b>	<ul style="list-style-type: none"> <li>- Head of Engineering Degree Programs at ACK.</li> <li>- Head of Computer Networking and Hardware in Civil Aviation Authority, Jordan.</li> <li>- Head of Automated Teller Machines (ATM's) unit in Housing Bank, Jordan.</li> <li>- Head assistant of Computer Networking at Jordan Islamic Bank</li> </ul>
<b>Previous Academic Positions Held:</b>	<ul style="list-style-type: none"> <li>- Lecture in Computer Engineering, King Fahd University of Petroleum &amp; Minerals in Saudi Arabia</li> </ul>
<b>Fellowships And Honors:</b>	<ul style="list-style-type: none"> <li>- Honorary Associate at the University of Tasmania, Australia.</li> </ul>

<b>Teaching Experience:</b>	22 years of teaching experience, detailed as follows: - - Feb. 2007 to date, Lecturer and Assistant Professor in Electrical Engineering Dept., ACK. - 2009 to 2012, Head of Engineering Degree Program. - 1999 to 2005, Lecturer in Computer Engineering at King Fahd University of Petroleum & Minerals in Saudi Arabia. - 1997 to 1999, Lecturer at Queen Noor College for Civil Aviation at Jordanian Civil Aviation Authority in Jordan.
<b>Industrial And Technical Experience:</b>	- 1999 to 2005 Networking Engineer at IT center of King Fahd University of Petroleum & Minerals in Saudi Arabia. - 1995 to 1997 Networking and systems Engineer at Jordan Islamic Bank in Amman, Jordan - 1993 to 1995 Networking and systems Engineer at Housing Bank in Amman, Jordan - 1992 to 1993 Electrical System Design Engineer at Al-Arabi Group – Consulting Engineers in Amman, Jordan.
<b>Research Interest:</b>	- Wireless communications - Signal processing - Antenna design
<b>Research Grants:</b>	- ACK research grant. - KFAS research grant.
<b>Research and Publications including Journals and Books:</b>	<u>International Book publications: -</u> - Amin Al-Ka'bi, "Wireless Communication Systems: Performance Enhancement Using Adaptive Array Antennas", LAP Lambert Academic Publishing, Nov. 2009, ISBN-10: 3838310853, ISBN-13: 978-3838310855.  <u>Scopus Indexed International Journal Papers: -</u> 1. Amin Al-Ka'bi, Marek Bialkowski, and John Homer, "Performance Comparison between Uniformly and Non-Uniformly Spaced Adaptive Antennas with Respect to Tolerance to Pointing Errors," Journal of Microwave and Optical Technology Letters, ISSN: 1098-2760, vol. 48, No. 11, November 2006. 2. Amin Al-Ka'bi, Marek Bialkowski, and John Homer, "Performance of Adaptive Array Antennas in Mobile Fading Environment", Transactions of Circuits, Devices and Systems, Journal of Institution of Engineering and Technology (IET), ISSN 1751-8598, Impact factor: 0.521, vol. 2, Issue 1, pp. 95-102, DOI: 10.1049/iet-cds:20070032, EID: 2-s2.0-40349106165, February, 2008. 3. Amin Al Ka'bi, "Computation of Extended Suzuki Mobile Fading Channel (Type I) Parameters", The ECTI Transactions on Electrical Engineering, Electronics, and Communications (EEC) (ISSN 1685-9545), Vol 15, No 2 (Aug., 2017), Regular Issue. ECTI-EEC is currently indexed by SCOPUS, Asian Citation Index (ACI) and Thai journal Citation Index (TCI), 2017. 4. Amin Al Ka'bi, "Proposed Model for Frequency Tuning of Ferrite-Based Inverted F-Antenna", Telecommunications and Radio Engineering, 2020, Vol. 79, Issue No. 3, pages 223-230, Bentham

	<p>Science Publisher, ISSN:0040-2508, E-ISSN:1943-6009.</p> <p>5. Amin Al Ka'bi, "Performance of Adaptive Antennas in Presence of Polarized Electromagnetic Signals", Telecommunications and Radio Engineering, 2020, Vol. 79, Issue No. 4, pages 291-304 Bentham Science Publisher, ISSN:0040-2508, E-ISSN:1943-6009.</p> <p>6. Amin H. Al Ka'bi, "Comparative analysis of Simulation Applications Used for Energy Consumption in Green Buildings", Recent Advances in Electrical &amp; Electronic Engineering, 2020, Vol. 13, No. 3, pp 1-6, Bentham Science Publisher, Print ISSN 2352-0965, Online-ISSN 2352-0973.</p> <p>7. (Q2 Journal) Amin H. Al Ka'bi, " Comparison of energy simulation applications used in green building", Annals of Telecommunication, Electronic ISSN 1958-9395, Print ISSN 0003-4347, Volume 75, Issue 7-8, pp 271 – 290, August, 2020.</p> <p>8. Amin H. Al Ka'bi, "Effect of Polarization on the Performance of Adaptive Antenna Arrays," Journal of Communications vol. 15, no. 9, pp. 661-668, Sep. 2020. Doi: 10.12720/jcm.15.9.661-668.</p> <p>9. (Q2 Journal) Amin Al Ka'bi, "A proposed Model for Frequency Tuned Antennas Used in Mobile Communication Systems", Accepted for publication in International Journal of Electrical and Computer Engineering, ISSN: 2088-8708, 2020.</p> <p>10. Amin H. Al Ka'bi, "Effect of Polarized Signals on the Performance of Adaptive Antenna Arrays", accepted for publication in Archives of Electrical Engineering, ISSN: 1427-4221, 2020.</p>
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**Paper Presentations  
 at Professional  
 Conferences:**

1. Amin H. Al-Ka'bi, A.H. El-Gezawi, O.B.; Abdelazeez, M.K., "The effect of pointing errors on adaptive antennas performance," Antennas and Propagation Society International Symposium, AP-S. Digest, Vol. 3, Pages: 1880 – 1883, Vol.3, DOI: 10.1109/APS.1993.385571, 28 June - 2 July 1993.
2. Amin Al-Ka'bi and John Homer, "Wireless Communication System Performance Enhancement Using Adaptive Array Antennas," Proceedings of the Fourth International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP), pp. 252-256, UK, July 2004.
3. Amin Al-Ka'bi and John Homer, "Parameters Computation of the Modified Loo Mobile Fading Channel", Proceedings of the 11th European Wireless Conference, Next Generation Wireless and Mobile Communications and Services, Cyprus, vol. 2, pp. 745-748, April 2005.
4. Amin Al-Ka'bi and John Homer, "Parameters Computation of the Extended Suzuki Mobile Fading Channel of Type II," Proceedings of the 2005 IEEE International Workshop on Signal Processing Advances for Wireless Communications (SPAWC 2005)", New York City, pp. 241 - 245, DOI: 10.1109/SPAWC.2005.1505908, 5-8 June 2005.
5. Amin Al-Ka'bi, Marek Bialkowski, and John Homer, "Mitigation of Multipath Propagation with the Use of a Non-Uniform Spaced Adaptive Array Antenna," 2005 IEEE Antenna and Propagation Society (AP-S) International Symposium and USNC/URSI National Radio Science Meeting, vol. 2B, Pages: 56 – 59, vol. 2B, DOI: 10.1109/APS.2005.1551934, Washington DC, 3-8, July 2005.
6. Mohamed Deriche, Al-Ka'bi, Amin; "On the performance of adaptive steerable antenna arrays in communication applications," 1st International Conference on Computers, Communications, & Signal Processing, 2005. CCSP 2005. P-ISBN: 978-1-4244-0011-9, pp. 15 - 20, DOI: 10.1109/CCSP.2005.4977150, publisher: IEEE, Kuala Lumpur, Malaysia, November, 2005.
7. Amin H. Al-Ka'bi and John Homer, "Parameters Computation of the Extended Suzuki Mobile Fading Channel of Type I," Proceedings of the 8th International Symposium on DSP and Communication Systems, DSPCS'2005 & 4th Workshop on the Internet, Telecommunications and Signal Processing, WITSP'2005, Noosa Heads (Sunshine Coast, Australia), 19-21 December 2005.
8. Amin Al-Ka'bi, Marek Bialkowski, and John Homer, "On the Performance of Adaptive Antenna Arrays in Mobile Fading Environment," Proceedings of 16th International conference on Microwaves, Radar, and Wireless Communications, (MIKON2006)", IEEE conference publications, pp. 465 - 468, DOI: 10.1109/MIKON.2006.4345219, Poland, Krakow, May 22-24, 2006.
9. Amin Al-Ka'bi, John Homer and Marek Bialkowski, "Effect of Mutual Coupling on the Performance of Uniformly and Non-Uniformly spaced Adaptive Array Antennas," Proceedings of the Fifth International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP06), Patras, Greece, July, 2006.

	<p>10. Amin Al-Ka'bi, Marek Bialkowski, and John Homer, "Performance of Adaptive Array Antennas in Mobile Fading Environment," Proceedings of the Fifth International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP06), Patras, Greece, July, 2006.</p> <p>11. Amin Al-Ka'bi, John Homer and Marek Bialkowski, "The Effect of Polarization on the Performance of Steered Beam Adaptive Array Antennas," Proceedings of the 5th Workshop on the Internet, Telecommunications and Signal Processing (WITSP'06), Hobart, Australia, Dec. 2006.</p> <p>12. Amin Al-Ka'bi, "Novel Method for Using Adaptive Array Antennas in DS-CDMA Mobile Radio Systems," Proceedings of the 5th European Conference on Antennas and Propagation (EuCAP2011) – ANTENNAS, IEEE conference publications, Page(s): 1027 – 1031, Rome, Italy, on 11-15 April 2011.</p> <p>13. Amin Al-Ka'bi, "Security in Mobile Wireless Networks" Proceedings of IEEE International Conference on Signal Processing and Communication (ICSC-2013), Page(s): 9 - 13, DOI: 10.1109/ICSPCom.2013.6719746, Noida, Uttar Pradesh, India, on 12-14, December, 2013.</p> <p>14. Amin Al-Ka'bi, "On modeling of Wireless MIMO Channel", Proceedings of IEEE Sixth International Conference on Intelligent Systems, Modeling and Simulation (ISMS-2015), pp. 215 - 219, DOI: 10.1109/ISMS.2015.10, Kuala Lumpur, Malaysia, on 9 – 12, February, 2015.</p> <p>15. Amin Al-Ka'bi, "On Frequency Tuning of Inverted F Antenna", Proceedings of The International Conference on Digital Information Processing, Electronics, and Wireless Communications (DIPEWC2016), ISBN: 978-1-941968-32-1, Page(s): 11-14, Islamic Azad University (IAU), UAE Branch, Academic City, Dubai, 2-4, March, 2016.</p> <p>16. Amin Al Ka'bi, "Design of PIFA Antenna Design for 4G Wireless Systems", Proceedings of 2nd IEEE International Conference on Information Technology, Information System and Electrical Engineering 2017, pp.187-190, Yogyakarta, Indonesia during 1 – 2, November, 2017. DOI: 10.1109/ICITISEE.2017.8285492, EID: 2-s2.0-85050382037.</p> <p>17. Amin Al Ka'bi, "Comparison of Simulation Applications Used for Energy Consumption in Green Buildings", Proceedings of 11th IEEE International Conference on Computational Intelligence and Communication Networks (CICN 2019), University of Hawaii (Manoa Campus) in Honolulu, Hawaii, USA, 3-6 Jan., 2019, and published by IEEE Xplore, EID: 2-s2.0-85075939706.</p>
<p><b>College Service including committee Membership:</b></p>	<ul style="list-style-type: none"> <li>- Chair of Validation and Moderation Committee at Electrical Engineering Dept., ACK.</li> <li>- Member of research, and Auditing &amp; Quality assurance departmental committees.</li> </ul>
<p><b>National Service:</b></p>	<p>N/A</p>
<p><b>School Committees:</b></p>	<p>N/A.</p>

